# CITY OF Marquette

Water, Wastewater and Stormwater Financial Plans
July 30, 2018



# Agenda

- 1. Overview of Financial Planning Process
- 2. Water, Sewer and Stormwater Financial Plans
- 3. Water and Sewer Rate Design Options and Impacts



## **Utility Financial Planning**

#### Purpose:

To determine the level of rate revenues necessary to achieve ensure financially sustainable water, wastewater and stormwater utilities.

#### **Process:**

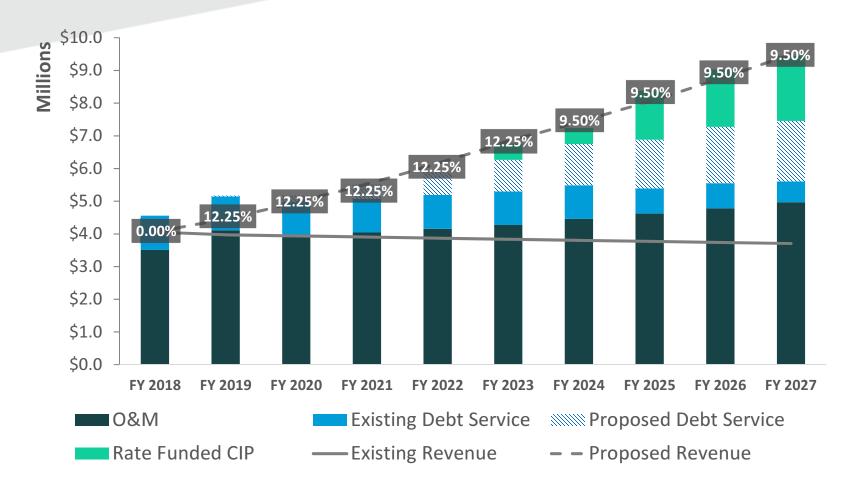
- 1. Forecast Revenue Under Existing Rates
- Forecast Operating Expenditures
- 3. Forecast Capital Expenditures
- 4. Identify Adjustments to Revenue to Meet Financial Objectives:
  - a) 90 Days (25%) of O&M and Debt Service in Reserves
  - b) Debt Service Coverage of 1.25x annual debt service
  - c) Begin Cash Funding Some Projects



# Financial Plans



# Water Financial Plan

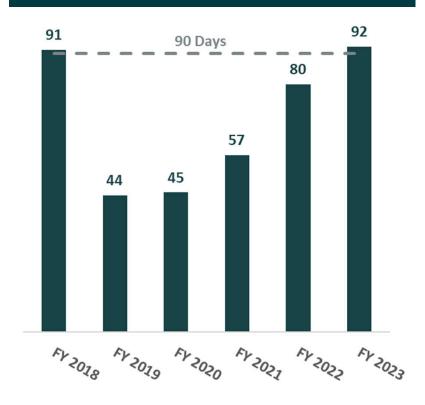


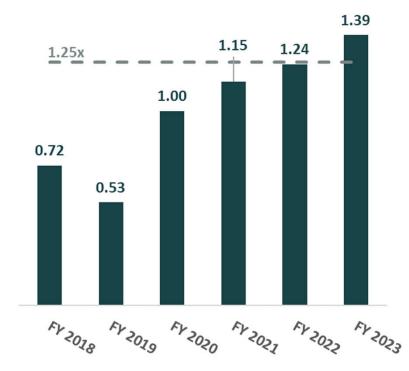


# Water Financial Performance Indicators

#### Reserve Balance

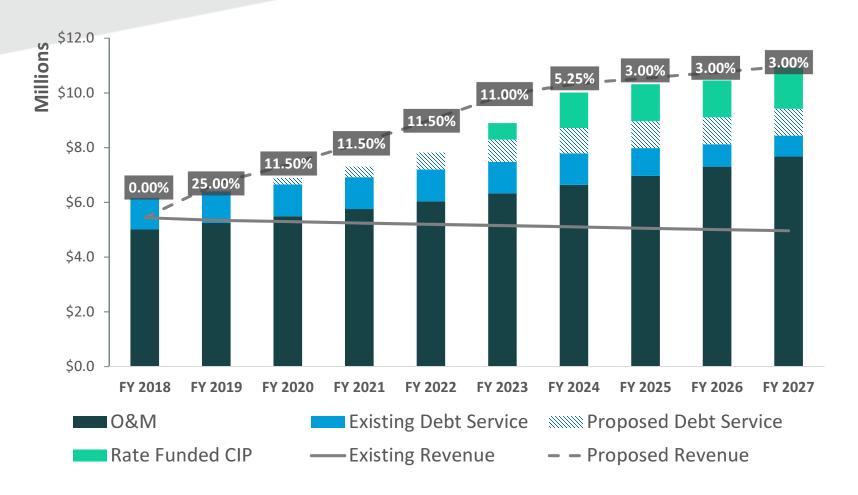
## Debt Service Coverage







# Sewer Financial Plan



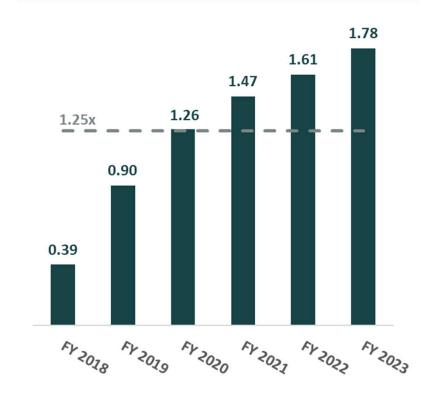


# Sewer Financial Performance Indicators

#### Reserve Balance

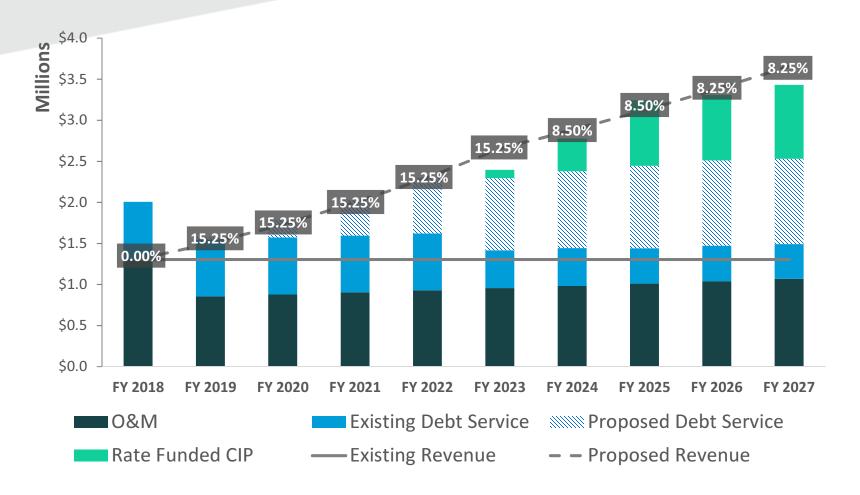
# 90 Days 55 57 2018 (32) (52) (53)

## Debt Service Coverage





# Stormwater Financial Plan

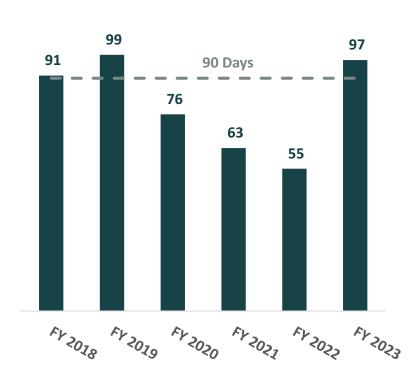


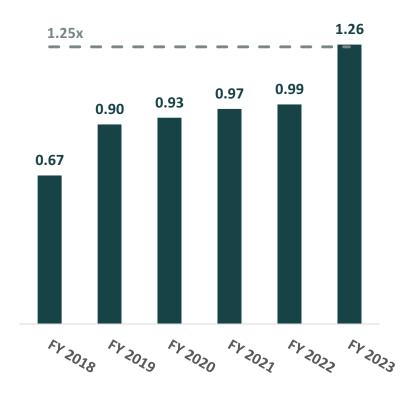


# Stormwater Financial Performance Indicators

#### Reserve Balance

## **Debt Service Coverage**







# Rate Design



## Rate Design

Overview

## Purpose:

Recover the total level of revenue indicated by the financial plans and meet the City's objectives.

<u>Challenge</u>: balance need for increased fixed revenues with impact to low usage customers.

- Water and Sewer
  - > Alt. 1 Across the Board Increase
  - Alt. 2 Higher Fixed Charge
- Stormwater Across the Board Increase



## FY 2019 Rates - Water

Rate	Per	Existing	Alt. 1 - Across the Board			Alt. 2 - Higher Fixed Charge			
			FY 2019	% Change	\$ Change	FY 2019	% Change	\$ Change	
5/8	Month	\$ 5.76	\$ 6.47	12.25%	\$ 0.71	\$ 7.17	24.50%	\$ 1.41	
3/4	Month	5.76	6.47	12.25%	0.71	7.17	24.50%	1.41	
1	Month	10.76	12.08	12.25%	1.32	13.40	24.50%	2.64	
1 1/2	Month	10.76	12.08	12.25%	1.32	13.40	24.50%	2.64	
2	Month	29.76	33.41	12.25%	3.65	37.05	24.50%	7.29	
3	Month	51.76	58.10	12.25%	6.34	64.44	24.50%	12.68	
4	Month	76.76	86.16	12.25%	9.40	95.57	24.50%	18.81	
6	Month	151.76	170.35	12.25%	18.59	188.94	24.50%	37.18	
8	Month	201.76	226.48	12.25%	24.72	251.19	24.50%	49.43	
10	Month	336.76	378.01	12.25%	41.25	419.27	24.50%	82.51	
Тах	1,000 Gal.	\$ 6.68	\$ 7.50	12.25%	\$ 0.82	\$ 7.35	10.09%	\$ 0.67	
Non-Tax	1,000 Gal.	7.29	8.18	12.25%	0.89	8.09	10.97%	0.80	



# FY 2019 Rates - Sewer

Rate	Per	Existing	Alt. 1 - Across the Board				Alt. 2 - Higher Fixed Charge			
			FY 2019	% Change	\$ Ch	ange	FY 2019	% Change	\$ Ch	nange
5/8	Month	\$ 5.00	\$ 6.25	25.0%	\$	1.25	\$ 7.50	50.0%	\$	2.50
3/4	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
1	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
1 1/2	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
2	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
3	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
4	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
6	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
8	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
10	Month	5.00	6.25	25.0%		1.25	7.50	50.0%		2.50
Tax	1,000 Gal.	\$10.29	\$12.86	25.0%	\$	2.57	\$12.68	23.2%	\$	2.39
Non-Tax	1,000 Gal.	10.29	12.86	25.0%		2.57	12.68	23.2%		2.39



## FY 2019 Rates – Stormwater

Rate	Per	Existing	FY 2019	% Change	\$ Change
Residential					
1/5 acre or less	Month	\$ 4.15	\$ 4.78	15.25%	\$ 0.63
1/5 to 1 acre	Month	7.05	8.13	15.25%	1.08
1 - 2 acres	Month	11.20	12.91	15.25%	1.71
2 - 6 acres	Month	21.35	24.61	15.25%	3.26
Non-Residential	Per EHA/Mo	\$ 82.00	\$ 94.51	15.25%	\$ 12.51

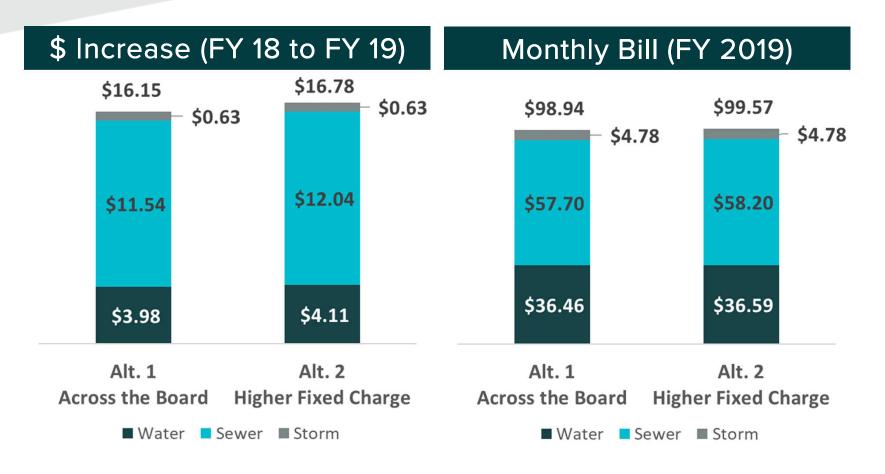


# Bill Impacts



## FY 2019 Monthly Bill Impacts

(4,000 Gal, 5/8", 1/5 acre or less)



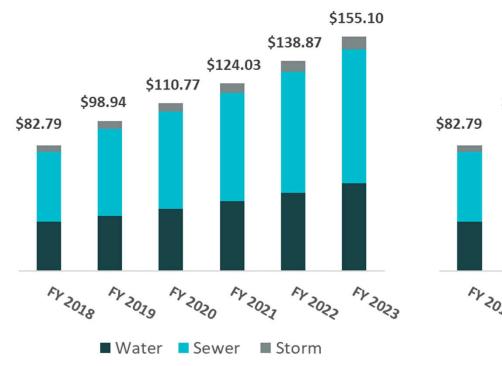


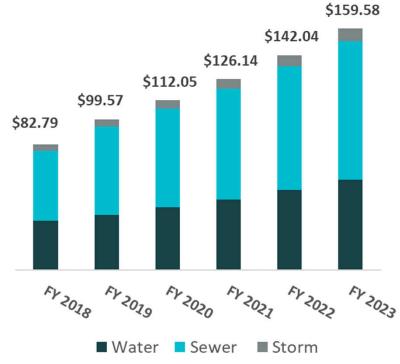
## Five Year Monthly Bill Impacts

(4,000 Gal, 5/8", 1/5 acre or less)

## Alt. 1 Across the Board

#### Alt. 2 Higher Fixed Charge







# \$ Increase in Bill - FY 2019

5/8" Meter Size, 1/5 acre or less







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# Thank you! Contact:

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# Additional Slides



# Utility Financial Planning Forecast Revenue Under Existing Rates

#### Considerations

- 1. No adjustment to rates in FY 2017
- Declining per customer billed usage
- 3. Climatic Considerations

#### **Assumptions**

- 1. No growth in customer accounts
- 2. 1% annual <u>decline</u> in per account usage
- Increased efficiency of new hospital
  - a) 35% <u>reduction</u> in W, S usage
  - b) \$50k reduction each
- 4. No increased revenues from meter change out



# Utility Financial Planning Forecast Operating Expenditures

#### Considerations

- 1. Cost of daily operations
- 2. Excludes capital improvements, debt service, depreciation
- 3. City Budgets + Assumed Inflation Rates

#### **Assumptions**

- 1. Escalation rate of 3% for most expenditures
- 2. Higher for those that typically exceed inflation (e.g., healthcare, pension)
- 3. No operational savings from performance management contract



# Utility Financial Planning Forecast Capital Expenditures

#### Considerations

- Existing Debt + New Debt + Cash Funded CIP
- 2. Excludes any projects included in TELP loan (for W and S)
- 3. Objective developing a level of cash funding for CIP.

## **Assumptions**

- 1. 3% Construction Cost Inflation
- 2. GO Debt Financing
  - a) 4% Interest
  - b) 10 Years
  - c) 1% Cost of Issuance
- 3. Cash funding begins in FY 2023:
  - a) W \$500k
  - b) S \$600k
  - c) SW \$100k

